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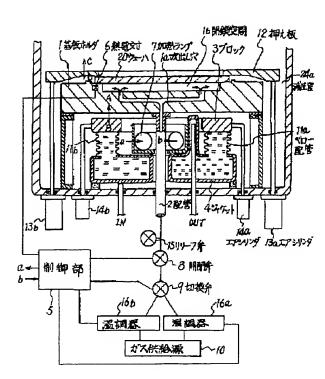
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TITLE

SEMICONDUCTOR SUBSTRATE

HEATING EQUIPMENT OF VACUUM

CHAMBER



ABSTRACT :

PURPOSE: To enable the multistage temperature setting of a wafer and stably maintain the set temperature, in a wafer heating equipment in a vacuum chamber of a sputtering equipment, a low pressure CVD equipment, etc.

CONSTITUTION: A heating lamp 7 for obtaining a desired set temperature from the low temperature side, a cooling mechanism which brings a block 3 into contact with the rear of a substrate holder 1 and decreases a temperature to a set value from the high temperature side, and a high temperature side control equipment 16a and a low temperature side control equipment 16b which control the temperature of inert gas at a set value are installed, and the temperature of a wafer 20 is set to be a specified value by heating or cooling the substrate holder 1 which almost airtightly mounts a wafer 20, by turning on or off the heating lamp 7 or by contacting or separating the block 3 of the cooling mechanism. Further the temperature of the wafer is set to be a specified value, by filling a closed space formed by the wafer 20 and the substrate holder 1 with inert gas whose temperature is set to be a specified value by the temperature control equipments 16a, 16b.

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